

(5) **Abstract:** Process for manufacturing fine iron or steel powders. The process is especially characterized in the steps of • providing an iron based, fragmented raw material, finely divided when applicable, • providing a brittle material by transforming raw material to nitride by means of ammonia gas, • milling the nitridic material to particle sizes desired, when applicable, and • denitriding to a fine iron or steel powder. The invention also relates to a plant for manufacturing fine iron or steel powders, fine iron or steel powders and use of powders manufactured by the process according to the invention.